



Launch Mission Execution Forecast

Vehicle: Delta IV Parker Solar Probe

Issued: 11 August 2018/1000Z (0600 EDT)

Valid: 12 August 2018 Launch Window

Launch Weather Team: (321) 853-8484

Synoptic Discussion: The Bermuda high pressure ridge will remain to the south until mid-next week, causing thunderstorms to move into the area each afternoon from the west. High convective winds are possible as these storms merge with the east coast sea breeze. Storms should move offshore and dissipate before the Mobile Service Tower roll operations, and weather will improve in the overnight hours. Closer to the launch window, thunderstorms will likely continue over the Gulf Stream offshore, and east upper-level winds could cause anvils from offshore thunderstorms to migrate toward the Space Coast. **The primary concerns for launch Sunday morning are anvil clouds.** By Monday morning, meteorological models indicate drier conditions aloft, therefore, the probability of violating launch weather constraints decreases to 20% with the primary concern being anvil clouds.

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Cumulus	Few	3,000	6,000
Cirrostratus	Broken	22,000	30,000

Weather:	Offshore Thunderstorms	Solar Activity:	Low
Visibility:	7 miles	Pressure:	30.00 INS
Wind:	220° @ 10KT (306')	RH:	91%
Temperature:	78°F		

Launch day overall probability of violating weather constraints: 40%

Primary concern(s): Attached and Detached Anvil Clouds

24-hour delay overall probability of violating weather constraints: 20%

Primary concern(s): Attached and Detached Anvil Clouds

Sunrise:	11/0650 EDT 12/0651 EDT 13/0651 EDT	Sunset:	11/2005 EDT 12/2004 EDT 13/2003 EDT	
Moonrise:	11/0656 EDT 12/0805 EDT 13/0911 EDT	Moonset:	11/2034 EDT 12/2120 EDT 13/2202 EDT	Illumination: 11 Aug 0% 12 Aug 2% 13 Aug 7%

Next forecast will be issued: As Needed